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1 Adaptive TTL schemes for load balancing of distributed Web servers

Michele Colajanni, Philip S. Yu

 September 1997 **ACM SIGMETRICS Performance Evaluation Review**, Volume 25 Issue 2

 Full text available: pdf(488.09 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

With ever increasing web traffic, a distributed Web system can provide scalability and flexibility to cope with growing client demands. Load balancing algorithms to spread the load across multiple Web servers are crucial to achieve the scalability. Various *domain name server* (DNS) based schedulers have been proposed in the literature, mainly for multiple homogeneous servers. DNS provides (logical) host name to IP-address mapping (i.e., the server assignment), but the mapping is not done f ...

2 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

 June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

 Full text available: pdf(233.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

3 Frameworks for component-based client/server computing

Scott M. Lewandowski

 March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1

 Full text available: pdf(243.81 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 An adaptive load balancing scheme for web servers

James Aweya, Michel Ouellette, Delfin Y. Montuno, Bernard Doray, Kent Felske

 January 2002 **International Journal of Network Management**, Volume 12 Issue 1

Full text available:  pdf(1.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes an overload control scheme for web servers which integrates admission control and load balancing. The admission control mechanism adaptively determines the client request acceptance rate to meet the web servers' performance requirements while the load balancing or client request distribution mechanism determines the fraction of requests to be assigned to each web server. The scheme requires no prior knowledge of the relative speeds of the web servers, nor the work required t ...

5 Design and implementation of a portable and adaptable load balancing framework

Erik Putrycz

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**


Full text available:  pdf(902.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Scaling applications to large networks and an increasing number of users has been since years a technical challenge. Today, well known technologies exist to scale applications to local networks but scaling to large networks with high latency is still a challenge. Load balancing at the middleware level allows more flexibility (in terms of granularity and distribution) than existing solutions based at lower system levels. However, it requires an execution infrastructure and mechanisms to be integr ...

6 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available:  pdf(1.41 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

7 NetCash: a design for practical electronic currency on the Internet

Gennady Medvinsky, Clifford Neuman

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**

Full text available:  pdf(604.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Licensing is a topic of increasing importance for software publishers and users. More and more, the magnitude of financial transfers between these two partners are determined by some electronic licensing service being part of the system on which the licensed software is running. In order to ease the use and management of such licensing schemes and to enable economic software usage in enterprise-wide computer systems through flexible and fair billing structures, various organizations are wor ...

8 Multi-client LAN/WAN performance analysis of Ninf: a high-performance global computing system

Atsuko Takefusa, Satoshi Matsuoka, Hirotaka Ogawa, Hidemoto Nakada, Hiromitsu Takagi, Mitsuhisa Sato, Satoshi Sekiguchi, Umpei Nagashima

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: Additional Information:

 pdf(169.71 KB)

[full citation](#), [abstract](#), [references](#)


Rapid increase in speed and availability of network of supercomputers is making high-performance global computing possible, including our *Ninf* system. However, critical issues regarding system performance characteristics in global computing have been little investigated, especially under multi-client, multi-site WAN settings. In order to investigate the feasibility of Ninf and similar systems, we conducted benchmarks under various LAN and WAN environments, and observed the following result ...

Keywords: global network computing, performance evaluation

9 [Network applications in Ada 95](#)

Jörg Kienzle

November 1997 **Proceedings of the conference on TRI-Ada '97**

Full text available:  pdf(1.02 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: Ada 95, GLADE, GNAT, client-server architectures, distributed systems, replication

10 [Access control with IBM Tivoli access manager](#)

Günter Karjoth

May 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 2

Full text available:  pdf(367.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated with its operating processes. As this transformation takes place, security grows in importance. IBM Tivoli Access Manager offers a shared infrastructure for authentication and access management, technologies that have begun to emerge in the com ...

Keywords: Access control, WWW security, Web servers, authorization management

11 [Developing adaptive groupware applications using a mobile component framework](#)

Radu Litiu, Atul Parakash

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Full text available:  pdf(168.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A need exists to develop groupware systems that adapt to available resources and support user mobility. This paper presents DACIA, a system that provides mechanisms for building such groupware applications. Using DACIA, components of a groupware application can be moved to different hosts during execution, while maintaining communication connectivity with groupware services and other users. DACIA provides mechanisms that simplify building groupware for domains where users are mobile. New co ...

12 [Constant time permutation: an efficient block allocation strategy for variable-bit-rate continuous media data](#)

Yueh-Min Huang, Jen-Wen Ding, Shiao-Li Tsao

April 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 1

Full text available:  pdf(204.04 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

To provide high accessibility of continuous-media (CM) data, CM servers generally stripe data across multiple disks. Currently, the most widely used striping scheme for CM data is round-robin permutation (RRP). Unfortunately, when RRP is applied to variable-bit-rate (VBR) CM data, load imbalance across multiple disks occurs, thereby reducing overall system performance. In this paper, the performance of a VBR CM server with RRP is analyzed. In addition, we propose an efficient striping scheme cal ...

Keyw rds: Continuous-media server, Data placement, Load balancing, Striping, Video-on-demand (VOD)

13 What TCP/IP protocol headers can tell us about the web

F. Donelson Smith, Félix Hernández Campos, Kevin Jeffay, David Ott

June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 29 Issue 1


Full text available:  [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We report the results of a large-scale empirical study of web traffic. Our study is based on over 500 GB of TCP/IP protocol-header traces collected in 1999 and 2000 (approximately one year apart) from the high-speed link connecting The University of North Carolina at Chapel Hill to its Internet service provider. We also use a set of smaller traces from the NLNR repository taken at approximately the same times for comparison. The principal results from this study are: (1) empirical data suitable ...

14 Access control: Balancing confidentiality and efficiency in untrusted relational DBMSs

Ernesto Damiani, S. De Capitani Vimercati, Sushil Jajodia, Stefano Paraboschi, Pierangela Samarati

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Full text available:  [pdf\(300.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The scope and character of today's computing environments are progressively shifting from traditional, one-on-one client-server interaction to the new cooperative paradigm. It then becomes of primary importance to provide means of protecting the secrecy of the information, while guaranteeing its availability to legitimate clients. Operating on-line querying services securely on open networks is very difficult; therefore many enterprises outsource their data center operations to external applicat ...

Keywords: cryptography, database service, indexing

15 Exploring reflection to dynamically aspectizing CORBA-based applications

Fabrício Fernandes, Thais Batista, Nélio Cacho

October 2004 **Proceedings of the 3rd workshop on Adaptive and reflective middleware**

Full text available:  [pdf\(321.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we discuss how reflective techniques are used to dynamic aspectizing CORBA-based applications. We use a reflective aspect-based language, AspectLua where support for aspect-oriented programming (AOP) is built on top of the reflection features of an interpreted language, Lua. In order to implement AOP in the Lua language we define a meta-object protocol (MOP) that provides an interception mechanism composed by operations to inspect the internal structure of the language and to m ...


Keywords: CORBA, applications, aspects, meta-object protocol, reflection

16

Client-server computing

Alok Sinha

July 1992 **Communications of the ACM**, Volume 35 Issue 7

Full text available:  [pdf\(7.53 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: client-server computing

17 Special issue on the PAPA 2002 workshop: Performance study of dispatching algorithms in multi-tier web architectures

Mauro Andreolini, Michele Colajanni, Ruggero Morselli

September 2002 **ACM SIGMETRICS Performance Evaluation Review**, Volume 30 Issue 2

Full text available:  [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The number and heterogeneity of requests to Web sites are increasing also because the Web technology is becoming the preferred interface for information systems. Many systems hosting current Web sites are complex architectures composed by multiple server layers with strong scalability and reliability issues. In this paper we compare the performance of several combinations of centralized and distributed dispatching algorithms working at the first and second layer, and using different levels of st ...

18 Potporri: Characterizing locality, evolution, and life span of accesses in enterprise media server workloads

Ludmila Cherkasova, Minaxi Gupta

May 2002 **Proceedings of the 12th international workshop on Network and operating systems support for digital audio and video**

Full text available:  [pdf\(303.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The main issue we address in this paper is the workload analysis of today's enterprise media servers. This analysis aims to establish a set of properties specific for enterprise media server workloads and to compare them with well known related observations about web server workloads. We propose two new metrics to characterize the dynamics and evolution of the accesses, and the rate of change in the site access pattern, and illustrate them with the analysis of two different enterprise media serv ...

Keywords: CDNs, dynamics, enterprise, media servers, sharing patterns, static locality, temporal locality, workload analysis

19 Transparent filtering of streams in GLADE

Laurent Pautet, Thomas Wolf

November 1997 **Proceedings of the conference on TRI-Ada '97**

Full text available:  [pdf\(1.25 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Ada 95, compression, cryptography, distributed objects, distributed systems, security

20 A client-aware dispatching algorithm for web clusters providing multiple services

Emiliano Casalicchio, Michele Colajanni

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available:  [pdf\(311.46 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: clusters, dispatching algorithms, load balancing

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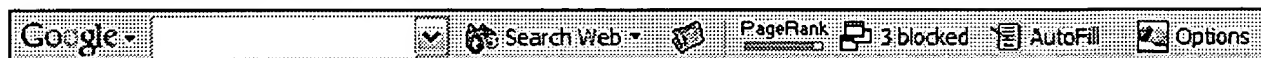
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Zaumen, W.T.; Vutukury, S.; Garcia-Luna-Aceves, J.J.;
Computers and Communications, 2000. Proceedings. ISCC 2000. Fifth IEEE Symposium on , 3-6 July 2000
Pages:566 - 574

[\[Abstract\]](#) [\[PDF Full-Text \(756 KB\)\]](#) IEEE CNF**2 Dynamic task assignment in server farms: better performance by task grouping**

Ling Tan; Zahir Tari;
Computers and Communications, 2002. Proceedings. ISCC 2002. Seventh International Symposium on , 1-4 July 2002
Pages:175 - 180

[\[Abstract\]](#) [\[PDF Full-Text \(290 KB\)\]](#) IEEE CNF**3 The performance server: rational server selection for mobile agents**

Pils, C.; Deissner, K.; Diepolder, S.; Kritzner, J.;
Computers and Communications, 2004. Proceedings. ISCC 2004. Ninth International Symposium on , Volume: 1 , 28 June-1 July 2004
Pages:13 - 18 Vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(656 KB\)\]](#) IEEE CNF**4 Load balancing of DNS-based distributed Web server systems with page caching**

Zhong Xu; Rong Huang; Bhuyan, L.N.;
Parallel and Distributed Systems, 2004. ICPADS 2004. Proceedings. Tenth International Conference on , 7-9 July 2004
Pages:587 - 594

[\[Abstract\]](#) [\[PDF Full-Text \(332 KB\)\]](#) IEEE CNF

5 Load-balanced anycast routing*Ching-Yu Lin; Jung-Hua Lo; Sy-Yen Kuo;*

Parallel and Distributed Systems, 2004. ICPADS 2004. Proceedings. Tenth International Conference on , 7-9 July 2004

Pages:701 - 708

[\[Abstract\]](#) [\[PDF Full-Text \(302 KB\)\]](#) IEEE CNF

6 Load balancing algorithms for Internet video and audio server*Niyato, D.; Srinilta, C.;*

Networks, 2001. Proceedings. Ninth IEEE International Conference on , 10-12 Oct. 2001

Pages:76 - 80

[\[Abstract\]](#) [\[PDF Full-Text \(503 KB\)\]](#) IEEE CNF

7 Performance guarantees for cluster-based internet services*Chang Li; Gang Peng; Gopalan, K.; Tzi-cker Chiueh;*

Distributed Computing Systems, 2003. Proceedings. 23rd International Conference on , 19-22 May 2003

Pages:378 - 385

[\[Abstract\]](#) [\[PDF Full-Text \(292 KB\)\]](#) IEEE CNF

8 Performance guarantees for cluster-based internet services*Chang Li; Gang Peng; Gopalan, K.; Chiueh, T.C.;*

Cluster Computing and the Grid, 2003. Proceedings. CCGrid 2003. 3rd IEEE/ACM International Symposium on , 12-15 May 2003

Pages:276 - 283

[\[Abstract\]](#) [\[PDF Full-Text \(309 KB\)\]](#) IEEE CNF

9 Towards an efficient cluster-based e-commerce server*Ungureanu, V.; Melamed, B.;*

Cluster Computing, 2003. Proceedings. 2003 IEEE International Conference on , 1-4 Dec. 2003

Pages:474 - 477

[\[Abstract\]](#) [\[PDF Full-Text \(214 KB\)\]](#) IEEE CNF

10 Replicating the contents of a WWW multimedia repository to minimize download time*Loukopoulos, T.; Ahmad, I.;*

Parallel and Distributed Processing Symposium, 2000. IPDPS 2000. Proceedings. 14th International , 1-5 May 2000

Pages:500 - 505

[\[Abstract\]](#) [\[PDF Full-Text \(112 KB\)\]](#) IEEE CNF

11 Parallel input/output with heterogeneous disks*Kuo, S.; Winslett, M.; Chen, Y.; Cho, Y.; Subramaniam, M.; Seamons, K.;*

Scientific and Statistical Database Management, 1997. Proceedings., Ninth International Conference on , 11-13 Aug. 1997

Pages:79 - 90

[\[Abstract\]](#) [\[PDF Full-Text \(1404 KB\)\]](#) IEEE CNF

12 Task assignment strategy for overloaded systems

Bin Fu; Broberg, J.; Tari, Z.;

Computers and Communication, 2003. (ISCC 2003). Proceedings. Eighth IEEE International Symposium on , 30 June-3 July 2003

Pages:1119 - 1125 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(394 KB\)\]](#) IEEE CNF

13 QoS-aware load balancing algorithm for globally distributed web systems

Jian Zhang; Hamalainen, T.; Joutsensalo, J.; Kaario, K.;

Info-tech and Info-net, 2001. Proceedings. ICII 2001 - Beijing. 2001 International Conferences on , Volume: 5 , 29 Oct.-1 Nov. 2001

Pages:36 - 41 vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(610 KB\)\]](#) IEEE CNF

14 TransWeb: a framework for development of transparent load-balanced Web applications

Choudhary, A.; Prabhakar, T.V.;

Distributed Objects and Applications, 2001. DOA '01. Proceedings. 3rd International Symposium on , 17-20 Sept. 2001

Pages:85 - 93

[\[Abstract\]](#) [\[PDF Full-Text \(600 KB\)\]](#) IEEE CNF

15 Client side reconfiguration on software components for load balancing

Putrycz, E.; Bernard, G.;

Distributed Computing Systems Workshop, 2001 International Conference on , 16-19 April 2001

Pages:111 - 116

[\[Abstract\]](#) [\[PDF Full-Text \(528 KB\)\]](#) IEEE CNF

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L20	6	server near5 (farm or cluster or array) and (server near5 maximum near5 storage)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 20:53
L21	6	(US-20040153481-\$ or US-20030204701-\$ or US-20030158940-\$ or US-20020198976-\$).did. or (US-6816907-\$ or US-6760765-\$).did.	US-PGPUB ; USPAT	OR	OFF	2005/01/20 20:51
L22	6	I21 and (server near5 maximum near5 storage)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 20:52
L23	673	(select\$3 near5 server near5 storage)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 20:53
L24	108	I23 and (server near5 (farm or cluster or array))	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 20:54
L25	19	I23 and (server near5 (farm))	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 20:54
L26	0	server near5 (farm) and (server near5 maximum near5 space)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 20:56
L27	7	(server near5 (farm or cluster or array)) and (server near5 maximum near5 space)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 20:57
L28	0	(server near5 having near5 space)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 20:57
L29	23	(server near5 maximum near5 space)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:00
L30	73	(server same maximum near5 space)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:00

L31	54	I30 not I29	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:00
L32	14	I31 and (server near5 (farm or cluster or group or array))	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:09
L33	1276	select\$3 near5 server near5 (space or cache or memory or storage)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:03
L34	747	select\$3 near5 server near5 (space or storage)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:03
L35	673	select\$3 near5 server near5 (storage)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:03
L36	150	select\$3 near2 server near2 (storage)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:08
L37	0	select\$3 near2 server near2 (storage) near5 (larg\$3 or big\$3 or huge or max\$5)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:08
L38	1	select\$3 near3 server near3 (storage) near5 (larg\$3 or big\$3 or huge or max\$5)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:09
L39	567	server near3 (storage) near5 (larg\$3 or big\$3 or huge or max\$5)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:09
L40	169	I39 and (server near5 (farm or cluster or group or array))	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:31
L41	16	(server near5 (farm or cluster or group or array)) and (server near5 sub near address)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:39
L42	9	(server near5 (farm or cluster or array)) and (server near5 sub near address)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:41
L43	293	(server near5 (farm or cluster or array)) and (unique near address)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:41
L44	1	(server near5 (farm or cluster or array)) and (unique near address near5 sub)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:57
L45	1	(US-6779039-\$.did.	USPAT	OR	OFF	2005/01/20 21:42
L46	1	I45 and (unique near address near5 sub)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:42

L47	360	(server near5 (farm or cluster or array)) and (valid near5 servers)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 21:57
L48	66	(server near5 (farm or cluster or array)) and (valid near5 servers near5 request)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:33

L50	66	I48 and (valid near5 servers near5 request)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:01
L51	66	I50 and (valid near5 servers near5 request)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:02
L52	66	I51 and (valid near5 servers near5 request)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:03
L53	66	I49 and (valid near5 servers near5 request)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:04
L54	440	I49 and account (valid near5 servers near5 request)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:04
L55	50	I49 and account	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:04

L56	50	(US-20040267897-\$ or US-20040117170-\$ or US-20030195873-\$ or US-20030191703-\$ or US-20030163403-\$ or US-20030149646-\$ or US-20030140121-\$ or US-20030105620-\$ or US-20030101239-\$ or US-20030097564-\$ or US-20030074234-\$ or US-20030074177-\$ or US-20030046671-\$ or US-20030046668-\$ or US-20030037321-\$ or US-20030037041-\$ or US-20030033594-\$ or US-20030033588-\$ or US-20030028864-\$ or US-20030028611-\$ or US-20020199173-\$ or US-20020169876-\$ or US-20020156904-\$ or US-20020147801-\$ or US-20020133611-\$ or US-20020124100-\$).did. or (US-20020064149-\$ or US-20010054070-\$ or US-20010009014-\$).did. or (US-6826566-\$ or US-6754181-\$ or US-6731625-\$ or US-6691301-\$ or US-6625750-\$ or US-6460036-\$ or US-6351775-\$ or US-6335927-\$ or US-6230200-\$ or US-6185619-\$ or US-6098093-\$ or US-6029195-\$ or US-5999525-\$ or US-5987621-\$ or US-5974503-\$ or US-5892915-\$ or US-5867495-\$ or US-5867494-\$ or US-5835087-\$ or US-5754939-\$ or US-5754938-\$).did.	US-PGPUB ; USPAT	OR	OFF	2005/01/20 22:04
L57	50	I56 and (valid near5 servers near5 request)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:05

L58	87	(server near3 (farm or cluster or array or pool)) and (client near5 server near5 map\$3)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:36
L59	9	(server near3 (farm or cluster or array or pool)) and (client near5 server near5 map\$3) and ((sub or LAN) near5 address)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:38
L60	9	(US-20030126195-\$ or US-20030120822-\$ or US-20020165961-\$ or US-20020116485-\$ or US-20020001307-\$).did. or (US-6801949-\$ or US-6470389-\$ or US-5878212-\$ or US-5617540-\$).did.	US-PGPUB ; USPAT	OR	OFF	2005/01/20 22:38
L61	9	L60 and (client near5 server near5 map\$3) and ((sub or LAN) near5 address)	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2005/01/20 22:38